

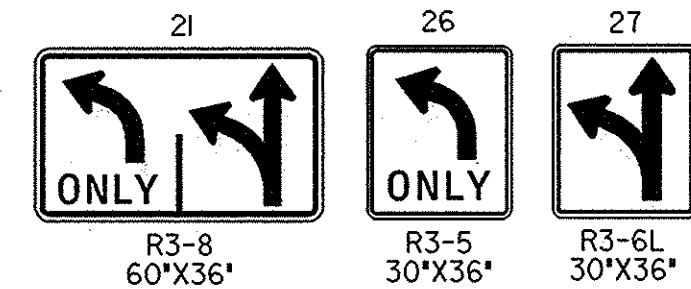
NOTE: MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

PROPOSED VIDEO DETECTION

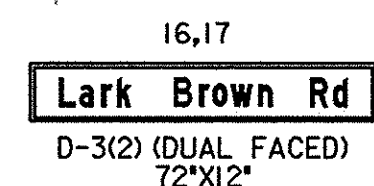
I, II, III, IV, V

TO MD 175

EXISTING SIGNS TO BE RELOCATED



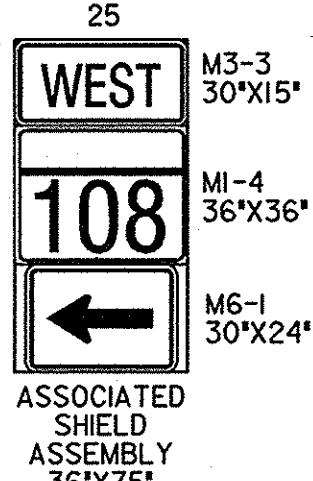
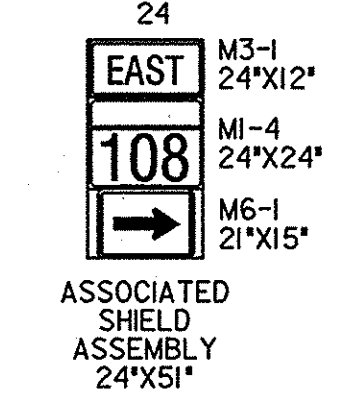
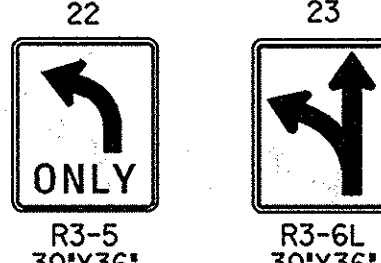
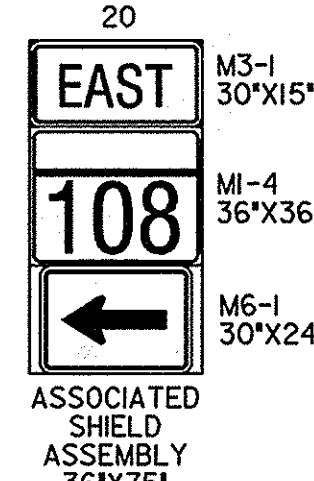
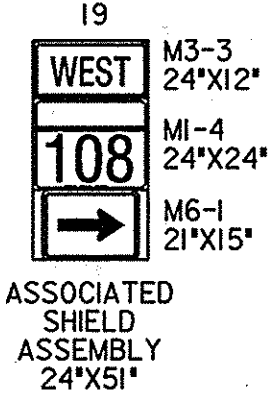
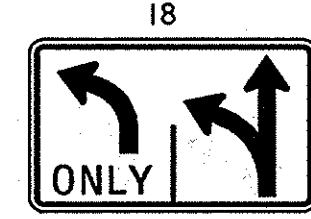
EXISTING SIGNS TO BE REPLACED



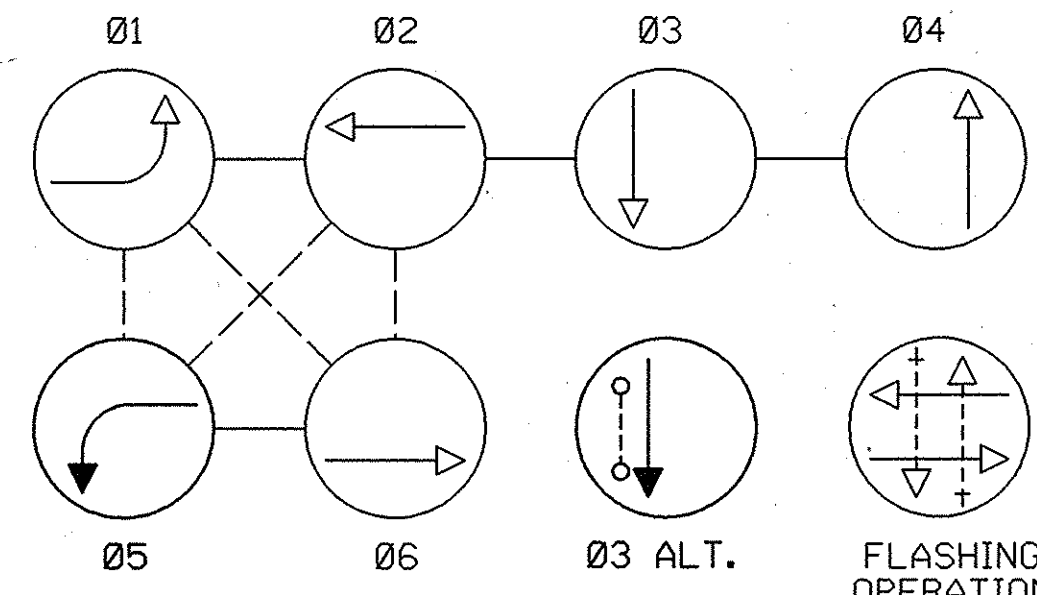
EXISTING SIGNS TO BE REMOVED



PROPOSED SIGNS

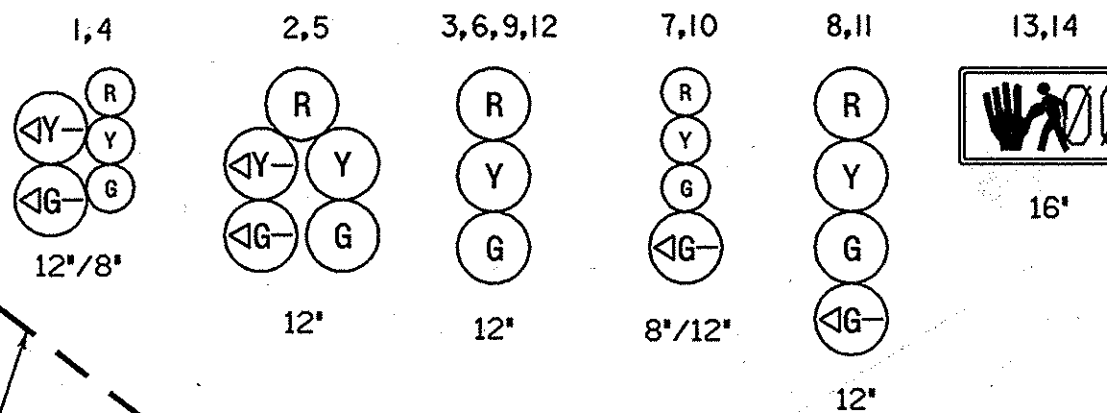


NEMA PHASING



PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

PROPOSED LED SIGNALS



TO US 29

GENERAL NOTES

1. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
2. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
3. SIGNAL HEADS AND MAST ARMS HAVE BEEN DESIGNED AND DIMENSIONED SO THAT PROPER MINIMUM DISTANCES ARE MAINTAINED TO OVERHEAD UTILITY LINES. CONTRACTOR SHALL ENSURE THAT ALL PROPOSED SIGNAL EQUIPMENT STAYS A MINIMUM OF 10 FT. FROM PRIMARY POWER LINES AND 5 FT. FROM SECONDARY POWER LINES.
4. SEQUENCE OF CONSTRUCTION FOR THE SIGNAL IS ADDRESSED IN THE TRAFFIC CONTROL NOTES TPOI.
5. ALL EXISTING UNUSED ELECTRICAL CABLES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
6. ALL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
7. SEE PS03 FOR EXACT RIGHT-OF-WAY LOCATIONS.
8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 816.01 AND MD 816.04, THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.

CONSTRUCTION DETAILS

- I (A) INSTALL 27 FT. TWIN STEEL POLE WITH 50 FT. AND 70 FT. ARMS (NOTE: 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT IN POLE BASE); BLACK FACED LED TRAFFIC SIGNAL HEADS; PEDESTRIAN PUSH BUTTON, SIGNAL HEAD AND SIGN (SIGN TO READ "PUSH BUTTON TO CROSS MD 108"); SIGNS: 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE; CLEAN, CUT, GALVANIZED AND CAP TRAFFIC SIGNAL ARM.
- I (B) INSTALL 27 FT. TWIN STEEL POLE WITH 60 FT. AND 70 FT. ARMS (NOTE: 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT IN POLE BASE); BLACK FACED LED TRAFFIC SIGNAL HEADS; 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE; CLEAN, CUT GALVANIZED AND CAP TRAFFIC SIGNAL ARM.
- I (C) INSTALL 10 FOOT PEDESTRIAN POLE, BREAKAWAY BASE SUPPORT, PUSH BUTTON, SIGNAL HEAD AND SIGN (SIGN TO READ "PUSH BUTTON TO CROSS MD 108"); (NOTE: 1-3 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT ELBOW IN POLE BASE).
- I (D) INSTALL NEMA SIZE 6" BASE MOUNTED CABINET AND CONTROLLER WITH CONTROLLER HARDWARE, VIDEO INTERFACE EQUIPMENT, DISCONNECT, AND METER (FOUNDATION SHALL HAVE TWO 4" AND TWO 2" 90 DEGREE CONDUIT ELBOWS).
- E REMOVE EXISTING STEEL POLE, STRAIN WIRE, SIGNAL HEADS AND SIGN. REMOVE FOUNDATION TO 1 FOOT BELOW GRADE.
- F REMOVE EXISTING CONTROL CABINET AND EQUIPMENT.
- G REMOVE EXISTING LIGHTING POLE, FOUNDATION AND EQUIPMENT.
- H REMOVE EXISTING ELECTRICAL HANDHOLE.
- J ABANDON EXISTING ELECTRICAL HANDHOLE.
- K ABANDON EXISTING ELECTRICAL CONDUIT.
- L DISCONNECT AND ABANDON EXISTING VEHICLE DETECTOR.
- M INSTALL ELECTRICAL HANDHOLE. I
- N INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED. I
- O INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED. I
- P INSTALL TWO (2) 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED. I
- Q INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED FOR POWER SERVICE FROM UTILITY POLE TO BGE METER ON PROPOSED EQUIPMENT CABINET.
- R INSTALL VIDEO DETECTION CAMERA USING PEDESTAL BRACKET I TO MAST ARM.
- S RELOCATE EXISTING SIGN FROM EXISTING SIGNAL POLE TO PROPOSED I SIGNAL POLE.
- T INSTALL 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING FOR CROSS WALK, AS DIMENSIONED ON PLAN.
- U INSTALL 24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE, AS DIMENSIONED ON PLAN.
- V HANDHOLE TO BE INSTALLED AS PART OF INTERCONNECT PLAN.
- W CONDUIT TO BE INSTALLED AS PART OF INTERCONNECT PLAN.
- X INSTALL METER SERVICE PEDESTAL. I
- Y INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. I

CONSTRUCTION DETAILS (CONT.)

- I (Z) INSTALL 5 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING (3 FOOT LINE, 9 FOOT SPACE).
- I (AA) INSTALL PEDESTRIAN RAMP IN ACCORDANCE TO MD STD. 655.12 WITH DETECTABLE WARNING SURFACE.

GEOMETRIC LEGEND

EXISTING -----
PROPOSED -----

UTILITY LEGEND

- G - GAS MAIN
- W - WATER MAIN
- S - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES

REVISION D CONSULTANT

WALLACE, MONTGOMERY & ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 West Road
Suite 300
Towson, Maryland 21204

APPROVALS		REVISIONS	
TEAM LEADER		03-25-05 REPLACE EXISTING STRAIN WIRE SIGNAL WITH MAST ARM SIGNAL DUE TO WIDENING. ADD VIDEO DETECTION AND INTERCONNECT.	
ASST. DIV. ENGINEER		07-25-05 REVISE PHASING. RELOCATE POLE IN SW QUADRANT.	
DIVISION CHIEF		12-08 RELOCATE POLE IN NW QUADRANT. INSTALLED MAINLINE LOOPS.	
OFFICE DIRECTOR		07-25-05 REVISE PHASING. RELOCATE POLE IN SW QUADRANT.	
		12-08 RELOCATE POLE OUT TO WIDENING, SHA.	
		WAL. S.R. D.A.Z. E.T.P. T.H.	

SURVEY BOOK NO.

PLOTTED: WEDNESDAY, AUGUST 23, 2006 AT 08:56 AM
FILE: 061081

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
TRAFFIC ENGINEERING DESIGN DIVISION
OFFICE OF TRAFFIC & SAFETY

**MD 108 AND LARK BROWN ROAD
SIGNAL PLAN**

SCALE 1" = 20'	DATE 7-25-90	CONTRACT NO. BW-355-802-T12
DESIGNED BY	TS NO. 2384 D	
DRAWN BY	T.I.M.S. NO. G875	
CHECKED BY	F.A.P. NO.	
COUNTY HOWARD	LOGMILE 1301081.94	
DRAWING NO. 5 OF 6	SHEET NO. 43A OF 49	
INDEXED		

BY: 4/26/2006